9. The digital communication network node according to claim **1**, wherein the at least one automated processor is configured to implement decentralized control of communication.

10. The digital communication network node according to claim **1**, wherein the at least one automated processor is configured to engage in an auction in which a plurality of other digital packet radio transceivers compete for allocation of communication resources.

11. A digital communication method, comprising:

providing a digital packet radio transceiver which communicates through an antenna array interfaced with the digital packet radio transceiver, defining a directional pattern supporting plurality of distinct spatial communication channels within a band having a plurality of frequency channels, wherein the plurality of distinct spatial communication channels permit concurrent spatial reuse of frequency channels;

controlling the digital packet radio transceiver with at least one automated processor;

detecting channel conditions based on a feedback protocol between the digital packet radio transceiver and a remote digital packet radio system, selectively controlling the digital packet transceiver to transmit information responsive to the channel conditions; and

detecting another digital packet radio transceiver concurrently using the same frequency channels, and selectively controlling an interference with the other digital packet radio transceiver in dependence on information from the other digital packet radio transceiver, by one of deferring to transmissions by the other digital packet radio transceiver, and competing with transmissions by the other digital packet radio transceiver.

12. The digital communication method according to claim **11**, wherein the antenna array comprises a phased antenna array, and the digital packet radio transceiver operates in a 5.9 GHz band between 5.850 GHz and 5.925 GHz, compliant with an IEEE-802.11 protocol.

13. The digital communication method according to claim **11**, further comprising operating the digital packet radio transceiver using orthogonal frequency division multiplexing.

14. The digital communication method according to claim **11**, further comprising controlling the digital packet radio transceiver to forward information wirelessly received from a first digital communication network node to a second digital communication network node.

15. The digital communication method according to claim **14**, further comprising forwarding the information selectively dependent on a secure cryptographic token received from the other digital packet radio transceiver.

16. The digital communication method according to claim **11**, further comprising controlling use of the frequency channels selectively in dependence on a secure cryptographic token received from the other digital packet radio transceiver.

17. The digital communication method according to claim **11**, wherein the at least one automated processor implements decentralized control of communication by the digital packet radio transceiver.

18. The digital communication method according to claim **11**, further comprising engaging in an auction in which a plurality of other digital packet radio transceivers compete for allocation of communication resources.

19. A non-transitory computer readable medium storing instructions for controlling an automated processor of a digital communication network node comprising a digital packet radio transceiver which communicates through an antenna array interfaced with the digital packet radio transceiver, defining a directional pattern supporting plurality of distinct spatial communication channels within a band having a plurality of frequency channels, wherein the plurality of distinct spatial communication channels permit concurrent spatial reuse of frequency channels, the instructions comprising:

instructions for detecting channel conditions based on a feedback protocol between the digital packet radio transceiver and a remote digital packet radio system, selectively controlling the digital packet transceiver to transmit information responsive to the channel conditions; and

instructions for detecting another digital packet radio transceiver concurrently using the same frequency channels, and selectively controlling an interference with the other digital packet radio transceiver in dependence on information from the other digital packet radio transceiver, by one of deferring to transmissions by the other digital packet radio transceiver, and competing with transmissions by the other digital packet radio transceiver.

20. The non-transitory computer readable medium according to claim **19**, further comprising instructions for controlling the digital packet radio transceiver to forward information wirelessly received from a first digital communication network node to a second digital communication network node.

* * * * *